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NRO REVIEW COMPLETED

28 November 1958

MEMORANIUM FOR: Special Assistant to the Director

for Planning and Development

SUBJECT : COMOMA Progress Meeting -- 20 Movember 1958

1. Subject meeting revealed generally good progress on all fronts with exceptions noted below.

- 3. Thermal Tests: New thermal tests utilizing a non-deliverable but nevertheless completely shocked-out camera are due to be run in mid-January. Such camera tests will include cycling the film and such film will be sent to EK for tests. Itek will put a latent image on this test film. The tests will be run in Lockheed's thermal chamber which duplicates, as nearly as is possible, actual flight conditions.
- 4. OE Items: No GE representatives were at the meeting and Jim Plummer reported on this item. Additional sublimating material needs to be added to the nose cone for a heat sink. Weight added by this requirement is very small and is only in the center section. It utilizes new techniques

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not known at the time the some was originally designed. The recovery flight capsule has a two weeks slippage due to a design problem at GE having to do with vibration but this is not considered critical. Additional ablative material is being added to the nose come. Results will be within design weights.

- 5. Measvery Rechniques: Sink rate of the parachutes is excessive. Parachutes are tearing on recovery due to excessive G's. This has been made on urgent action item and a special report vill be issued soon on this critical area. The sea-marker, as expected, is poor. The rescuelight is also very poor and redesign is being done. The beacon is operating well.
- 6. The firing schedule for firing No. 1 is still early in December requested Lookheed and no slippage is foreseen at this time. to submit a proposal contemplating two firings in April and two thereafter rather than 3 total in April and May with two scheduled in Movember. indicated this would increase the cost but agreed to subsuit such a schedule with attendant additional costs.

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7. Discussion was had on the new flexible schedule regarding payloads (Bio, Cemera and ARPA) and general agreement was reached that this was a reasonable approach to the problem.

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3. Considerable discussion was had on the cover story and Colonel planned to Sheppard will submit his comments to on 21 Kivember, 25X1 brief General Made at Vendenberg, accompanied by

- 9. Col. Sheppard expects us to handle the policy problems connected with approval to fire any given shot.
- 10. Weight problems still plague us in the COROMA program. Investiextions are still going on in possible solutions to get a definite positive weight balance. Possible areas are (a) remove some telemetry guar (b) select engines (c) lower launch azimuth, sec. The latter remedy can pick up as much as 50 pounds. It must be kept in mind all veight problems relate to probability of orbit (90% downward) and this in turn is related to over-all percentages of reliability of the whole system.
- 11. The progress review charts, of which you have a copy, will show additional detail in the above items. Should you have any questions after review of the charts I should be harpy to review them with you.

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